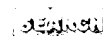



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21 [User interface specification using an enhanced spreadsheet model](#)



Scott E. Hudson

 July 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(2.01 MB\)](#)

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This paper describes a new interactive environment for user interface specification which is based on an enhanced spreadsheet model of computation. This environment allows sophisticated graphical user interfaces with dynamic feedback to be implemented with little or no explicit programming. Its goal is to support user interface specification by nonprogramming experts in human factors, visual design, or the application domain. In addition, the system is designed to allow sophisticated end-user ...

Keywords: automatic display update, constraint systems, direct manipulation, end-user programming, interface builders, prototype-instance-based inheritance, semantic feedback, user interface management systems

22 [Object lens: a "spreadsheet" for cooperative work](#)



Kum-Yew Lai, Thomas W. Malone, Keh-Chiang Yu

 October 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(1.78 MB\)](#)

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Object Lens allows unsophisticated computer users to create their own cooperative work applications using a set of simple, but powerful, building blocks. By defining and modifying templates for various semistructured objects, users can represent information about people, tasks, products, messages, and many other kinds of information in a form that can be processed intelligently by both people and their computers. By collecting these objects in customizable folders, users can create their own ...

23 [Graphical techniques in a spreadsheet for specifying user interfaces](#)



Brad A. Myers

 March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology**

Publisher: ACM Press